



5th Coding Sprint

Wrap up

Jürgen Knödseder (IRAP)

Happy coders ...



29 February - 4 March 2016

5th ctools and gammalib coding sprint
(Jürgen Knödseder)

2

Dark matter halo

Nathan, Jürgen

#1520

Implement `GModelSpatialRadialProfile` class as base class for an arbitrary radial model, defined as function of offset angle θ

Implement `GModelSpatialRadialProfileGauss` as an illustration of how to use the class (should provide results identical to `GModelSpatialRadialGauss`)

Implementation of

`GModelSpatialRadialProfileDMEinasto`,
`GModelSpatialRadialProfileDMBurkert`, and
`GModelSpatialRadialProfileDMZhao` in progress

Stacked analysis energy dispersion

Michael, Maria, Rolf

#1721

Implement `GCTACubeEdisp` class to handle energy dispersion cube

Implement handling of energy dispersion in `GCTACubeResponse`

Adapt `GCTACubeSourceDiffuse` to handle energy dispersion

Added unit test

#1724

Creation of `ctedispcube`

Classical On/Off analysis

Pierrick

#932 (implement ctools for classic analysis)

#1044 (implement on/off fitting)

Status?

#1669

Next steps: get rid of `GCTAOnOffObservations` (an On/Off observation should be filled in `GObservations`)

Workflow

Justin

Feedback from exercising current workflow proposal?

Smoothing and denoising

François Brun

#1729, #1730, #1731

ToDo: Implement low-level classes that perform FFT transform of 1D and 2D arrays and use these classes for sky map smoothing in GSkyMap

MAGIC data analysis

Konstancja, Whipu

#1726, #1727, #1728

ToDo: Write exporters for MAGIC data and response functions and test MAGIC data analysis using ctools

Simulating DM with CTA

Jürgen, Lili

#1722

Investigate offset in diffuse model cube simulation.
Implement MC rejection methods in
`GModelSpatialDiffuseCube` and `GCTABackground3D`.

#1725

ToDo: Implement MC rejection methods in
`GModelSpatialDiffuseMap`

Your feedback

What was good?

What was not so good?

Any ideas about the format for the next coding sprint?

Next steps

What ctools / cscripts are you missing?

What functionalities are you missing in GammaLib?

Support Requests

Your help is needed

#1718, #1719

Users request for some support with their analyses. Do not hesitate to grab some of the issues and to respond / work on them.

Next meeting

September 2016 in Toulouse?

5-9 September?

12-16 September?

19-23 September?